

ENGINEERING CHECKS

DD 963 CLASS (Rev 6)

AUXILIARIES (AX) PRE-UNDERWAY PHASE

[DD 963 CLASS MASTER CHECKLIST REV 3]

5811	ANCHOR WINDLASS	
Component/Sub-Con	nponent	Proposed Procedure
Inspect Tech Manual Support		NAVSEA/OEM TECH MANUAL
Inspect PMS Support		5811/004
		5811/800
Inspect posted operating/safe	ty instructions	
and lubrication data		NAVSEA/OEM TECH MANUAL
Test Operate Anchor Windlass	s with No-Load	5811/004 U-1
_		5811/800 R-8
Inspect Fluid Samples		5811/004 A-4
		NSTM 262
Inspect for proper HPU fluid le	vels	NAVSEA/OEM TECH MANUAL
Inspect anchor windlass lubric	ation IAW PMS	5811/004 S-1R
requirements		5811/004 Q-1R
Inspect handbrake is adjusted	IAW PMS	
requirements (recommend with	in 30 days of	
MI)		5811/004 A-1
Inspect magnetic brake is adju	sted IAW PMS	
requirements (recommend with	in 30 days of	
MI)		5811/004 A-6
Inspect brake linkage assembly	1	5811/004 U-1
Test wildcat/windlass solenoic	l switch	5811/800 R-26
		5811/800 R-8
Inspect Gauge Calibration		CRL
		5811/800 R-8
Inspect relief valve data is proj		
data is not posted, then ship n	nust conduct	
relief valve test)		NAVSEA/OEM TECH MANUAL
Inspect all flex hoses are prope	erly tested and	NAVSHIPYD PUGET SOUND
labeled		261925Z APR99
Inspect flange shields		NSTM 505
Inspect for adequate nitrogen	charge for	
windlass		n/a
Inspect speed limiter		NAVSEA/OEM TECH MANUAL

Inspect for adequate LP air pressure for chain	
compressor	n/a
Inspect filter differential indications	NAVSEA/OEM TECH MANUAL
Inspect HPU mechanical seal leakage	NSTM 503
Inspect Servo/Replenishment pressures during	
wildcat operation	NAVSEA/OEM TECH MANUAL
Inspect Chain Compressor operation	n/a
Inspect reduction gear lubrication	
(gauges/sight flows/dipsticks)	NAVSEA/OEM TECH MANUAL
Test crossover valve operation	5811/004 U-1

5600 / 5611	STEERING (In	nport System Verification)
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual and EOSS Support		NAVSEA/OEM TECH
		MANUAL and EOSS
Inspect PMS Support	Inspect PMS Support	
		5611/801
Inspect operating/safety instruction		NAVSEA/OEM TECH
system/electrical wiring diagran	ns are posted	MANUAL
Inspect fluid samples		5600/020 S-4R
		NSTM 262
Inspect static mechanical check	r.s	5611/801 R-17 NAVSHIPYD
		PUGET SOUND 261925Z
		APR99
Inspect relief valve test tags are		
not, test compensator relief val		5611/801 R-15
Inspect relief valve test tags are		5611/801 R-15
not, test main relief valve setting		NSTM 562
Inspect flange shields are propo		NSTM 505
Inspect steering gear lubricatio	n	5600/020 2W-1
Inspect trick wheel assembly		5611/801 R-3
Test N2 accumulator charge		5611/801 R-3
		5600/020 R-13
Inspect proper fluid levels		5611/801 R-3
		NAVSEA/OEM TECH
		MANUAL
Inspect filter indicators		5611/801 R-3
Inspect rudder ram finish		5611/801 R-3
		NSTM 562
Inspect rudder ram cylinders for	r leaks	5611/801 R-3
Inspect gauge calibration		CRL
Inspect rudder stock grounding	g straps and post	NAVSEA/OEM TECH
lubrication		MANUAL
		5600/020 R-6
Inspect servo/replenishment pressures are correct		5611/801 R-3
Test the rudder follow up error (1 deg increments at 0		5611/801 R-3
to 5 deg; 5 deg increments at 5 to 25 deg)		5611/801 R-2
		NSTM 562
Test the trick wheel stops		5611/801 R-3
Inspect the crush block clearan		5611/801 R-3
Test (inport) rudder swing checks		5611/801 R-3
Test (inport) blocking valve		NSTM 562

Test auxiliary emergency steering pump	n/a
Test manual emergency steering system	5611/801 R-3
Test steering casualty alarm	EOSS
Test pump remote operation and transfer of controls	5611/801 R-3
to pilot house	EOSS
Test for static rudder split (pilot house in control)	5611/801 R-3
	NSTM 562
Test for indicator error (pilot house in control)	5611/801 R-3
	NSTM 562

5512 / 5513 / 5515	LOW and MEDIUM	I PRESSURE AIR SYSTEM
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual and EOS	Inspect Tech Manual and EOSS Support	
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instru	actions are posted	
Inspect compressor oil level ar	nd oil samples	
Test compressor pressures and	l temperatures	
Test compressor capacity con	trol system	
Inspect compressor belt condi-	tion	
Test compressor auto control a		
a. Operational control switch	hes (115/120/125)	
b. Low oil pressure		
c. High discharge pressure		
d. High air and water temp		
Inspect all relief valve testing i		
Inspect location of intake/vent		
Inspect receiver flask certification		
Test priority valve operation		
Inspect sea water cooling system		
Inspect 50/50 mixture of ethylene glycol		
Test type I and type II dehydrator operation		
a. Gauge calibration		
b. Tower operation		
c. Purge air pressure		
d. Automatic drain operati	d. Automatic drain operation	
e. Dew point		
f. Inspect PMS and Tech Manual support		

5511 / 5515 HIGH PRESSUR		SSURE AIR SYSTEM
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual and EO	SS Support	
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety inst	ructions are posted	
Inspect compressor oil level a	and oil samples	
Test compressor auto control	l and safety switches	
a. Start / Stop switch		
b. Low oil pressure switch	h	
c. Jacket water temp swite	ch	
d. Compressor temp/pres	sure monitor operation	
Inspect compressor pressures	s and temperatures	
Inspect compressor drive bel	t condition	
Inspect condensate monitoring		
Inspect all flex hoses are proj		
Inspect all relief valve testing		
Inspect HP air flask certification		
Inspect sea water cooling sys		
Inspect air intake/ventilation supply location		
Inspect all HP/LP air reducing stations		
Inspect fresh water pump belts		
Inspect capacity		
Inspect oil wipers		
Inspect pressure regulator va		
Inspect 50/50 mixture of eth	ylene glycol	
Inspect seals for oil leaks		

5210	FIRE PUMPS (ELECTRIC and STEAM)	
Component/Sub-C	omponent	Proposed Procedure
ALL FIRE PUMPS		
Inspect Tech Manual / EOSS support		EOSS
		NAVSEA/OEM TECH
		MANUAL
Inspect PMS support		5210/806
		5210/021
Inspect gauge calibration		CRL
Inspect transducer calibration		CRL
Inspect pump, motor (casing, pa	acking/mechanical	5210/806 R-3/10/30/33
seal, coupling, etc.)		NSTM 503
Inspect coupling guard		5210/806 R-3/33
		OPNAVINST 5100.19
Inspect foundation		5210/806 R-3/33
		NSTM 503
Inspect ferrous fasteners		5210/806 R-3/33
		NSTM 075, 505 5210/806 R-3/10/30/33
Inspect resilient mounts	Inspect resilient mounts	
		NSTM 503
_		NAVSEA S9073-A2-HBK-010
Inspect grounding straps		5210 R-3/33
		5210/021 A-6
T		NSTM 300
Inspect piping & supports		5210/806 R-10/30
T 4 -11 Cl 1	.1 441/1111	NSTM 505
Inspect all flex hoses are proper	riy tested/labeled	5000/009 A-1/A-2 5000/014 A-1/A-2
		NAVSHIPYD PUGET SOUND
		261925Z APR99
Inspect piping lagging		5210/806 R-10/30
mspeet piping tagging		NSTM 505, 635
Inspect the suction strainer		EOSS
inspect the suction strainer		NAVSEA/OEM TECH
		MANUAL
		1 1,1111,0112

Test remote motor/hydraulic operated	EOSS
suction/discharge valves, interlocks	5210/806 R-10/30
Inspect local valves and remote control station	5210/021 S-8
(labeling, position indicators, etc)	5000/005 S-4, A-3
Inspect MHVC station oil level and relief valve test	5000/006 2M-1, 36M-4
periodicity	
Test remote start/stop functions	EOSS
Test local start/stop functions	EOSS
Inspect pump operation (design discharge pressure,	EOSS
gages, unusual noise, bearing temps, etc).	NAVSEA/OEM TECH
	MANUAL
Inspect for proper seating of relief valve and no	EOSS
reverse rotation upon securing pump	NAVSEA/OEM TECH
	MANUAL
STEAM DRIVEN FIRE PUMPS	
Inspect lube oil filter indications and oil level	N/A
Test the over speed trip	N/A
Test the speed limiting governor	N/A
Test the turbine auxiliary lube oil pump low-pressure	N/A
automatic start switch operation	
Test combination exhaust and relief valve	N/A

5240 SEAWATER SERVICE PUN		R SERVICE PUMPS
Component/Sub-C	omponent	Proposed Procedure
Inspect Tech Manual / EOSS su	ıpport	NAVSEA/OEM TECH
		MANUAL EOSS
Inspect PMS support		5240/011
		5240/804
Inspect gauge calibration		CRL
Inspect transducer calibration		CRL
Inspect coupling guard		OPNAVINST 5100.19
Test remote start/stop function	S	EOSS
Test local start/stop functions		EOSS
Inspect pump operation/design		EOSS
unusual noise, bearing temps, e	etc.	NSTM 503
		NAVSEA/OEM Tech
		Manual
Inspect packing and mechanica		NSTM 503
Inspect for proper seating of ch		EOSS
reverse rotation upon securing	the pump	NAVSEA/OEM Tech
		Manual
Inspect for ferrous fasteners		NSTM 075
		NSTM 505-3.1.1
Inspect foundation and resilient mounts		5240/012 24M-2R
		NAVSEA S9073-A2-HBK-
		010
Inspect condition of expansion		NSTM 505
Inspect all flex hoses are proper	rly tested/labeled	5000/009 A-1/2
		5000/014 A-1/2
		NAVSHIPYD PUGET
·		SOUND 261925Z APR99
Inspect piping lagging		NSTM 505
Inspect grounding straps		5240/012 A-6R
		NSTM 300
		NSMT 503
Test remote motor/hydraulic operated		EOSS
suction/discharge valves, interlocks		5240/804 R-2
Inspect local valves and remote control station		5000/005 S-5, A-3
(labeling, position indicators, etc)		5000/006 2M-1, 36M-4
Inspect MHVC station oil level and relief valve test		
periodicity		

Inspect the suction strainer	5240/012 Q-1R/2R
	NSTM 503
Test aux seawater low pressure alarm, start-up switch	N/A
Inspect firemain to seawater reducing station	EOSS
operation	

5140 AIR COND		ITIONING PLANTS
Component/Sub-Component		Proposed Procedure
CENTRIFUGAL UNITS (R-1		
RECIPROCATING UNITS (I		
(check items below as application)		
Note: Some units are not equ		Note: Applicable MRCs are
valves for pressure testing.		used as guides to demonstrate a
amount of refrigerant would		particular component's
not advisable. For these insta	*	performance. Some MRCs may
operation will be accomplished	• 1	not be accomplished in their
(e.g., securing/aligning s/w, to	•	entirety.
pump on/off, turning the c/w		
Inspect Tech Manual / EOSS	support	NSTM 516
		NAVSEA/OEM Tech Manual
Inspect PMS support		5140/011 (R-114)
		5140/013 (R-236fa)
		5140/804 (R-114 & R-236fa)
Inspect operating/safety inst	ructions are posted	GSO 516, 602
		OPNAVINST 5100.19
		NAVSEA/OEM Tech Manual
Inspect refrigerant logs		5140/011 M-4R
		5140/013 M-4R
Inspect material condition		5140/804 R-2
Inspect compressor oil level,	oil sample	5140/010 R-6
		5140/012 R-6
		EOSS
Inspect moisture indicators		5140/011 W-1R
		5140/X11 2W-1
		5140/013 W-1R
Inspect hermetic motor sight	glass	5140/011 M-2
		5140/013 M-2
Inspect gauge calibration		CRL
Verify calibration & operation	n of high pressure switch	5140/013 A-8
(236fa)		
Verify calibration & operatio	on of pressure transducers	5140/013 24M-4
(236fa)	•	
Inspect oil accumulator press	ure (236fa)	5140/013 M-1
-	-	

Operating level Filling air gap Hose connection warning sign Relief valves and vacuum breakers Inspect sea water system & controls Operate emergency cooling water reducing station Reducing valve and station pilot valve sensing line strainer Seawater regulating valve Condenser (O&I as required) Zinc anodes (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Poperating parameters Bearing lubrication Mechanical seal leakage Pump discharge check valve seat tightness Coupling guard Inspect resilient mounts Inspect grounding straps Inspect vent exhaust ducting terminal (flow, location, indicators and alarms) Inspect vept caphology as required) Inspect vept exhaust ducting terminal (flow, location, indicators and alarms) Inspect tube oil filter/strainer (O&I as required) Inspect dehydrator (O&I as required) 5140/013 R-13, M-3R, Q-5, S-3R, A-10R 5140/013 R-13, M-3R, Q-5, S-3	Inspect Chill Water Expansion Tank	5140/011 24M-2
Filling air gap Hose connection warning sign Relief valves and vacuum breakers Inspect sea water system & controls Operate emergency cooling water reducing station Reducing valve and station pilot valve sensing line strainer Seawater regulating valve Condenser (O&I as required) Zinc anodes (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) NSTM 516 EOSS NAVSEA/OEM Tech Manual Inspect/test sea water pump (as applicable) Operating parameters Bearing lubrication Mechanical seal leakage Pump discharge check valve seat tightness Coupling guard Inspect resilient mounts S140/013 A-4R NAVSEA/OEM Tech Manual OPNAVINSTR 5100.19 NSTM 503, GSO 503 EOSS NAVSEA/OEM Tech Manual OPNAVINSTR 5100.19 NSTM 504 S140/013 A-4R S140/013 A-4R NAVSEA S9073-A2-HBK-011 Inspect grounding straps Inspect flexible hoses S000/019 A-1/2 Inspect vent exhaust ducting terminal (flow, location, indicators and alarms) Inspect cylinder stowage racks NSTM 516 GSO 516 Inspect lube oil filter/strainer (O&I as required) Inspect dehydrator (O&I as required) S140/011 R-3 S140/011 R-3 S140/013 R-6 S140/013 R-6 S140/013 R-6 S140/011 R-3	-	
Hose connection warning sign Relief valves and vacuum breakers EOSS		
Relief valves and vacuum breakers Inspect sea water system & controls Operate emergency cooling water reducing station Reducing valve and station pilot valve sensing line strainer Seawater regulating valve Condenser (O&I as required) Zinc anodes (O&I as required) Headers, tube sheet, divider plate (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Inspect/test sea water pump (as applicable) Operating parameters Bearing lubrication Mechanical seal leakage Pump discharge check valve seat tightness Coupling guard Inspect resilient mounts Inspect grounding straps Inspect grounding straps Inspect vent exhaust ducting terminal (flow, location, indicators and alarms) Inspect replacement refrigerant charge Inspect lube oil filter/strainer (O&I as required) Inspect dehydrator (O&I as required) S140/011 R-1/13, M-3R, Q-5, S-3R, A-10R S140/013 R-13, M-3R, Q-5, S-3R, A-10R S140/011 R-1/13, M-3R, Q-5, S-3R, A-10R S140/011 R-1/2 S140/011 R-1/2 S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-6 S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-6 S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-1/3 S140/011 R-1/2 S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-1/3 S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-1/3, M-3R, Q-5, S-3R, A-10R S140/011 R-1/2 S140/		•
Inspect sea water system & controls Operate emergency cooling water reducing station Reducing valve and station pilot valve sensing line strainer Seawater regulating valve Condenser (O&I as required) Zinc anodes (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Inspect/test sea water pump (as applicable) Operating parameters Bearing lubrication Mechanical seal leakage Pump discharge check valve seat tightness Coupling guard Inspect resilient mounts Inspect grounding straps Inspect grounding straps Inspect vent exhaust ducting terminal (flow, location, indicators and alarms) Inspect lube oil filter/strainer (O&I as required) Inspect lube oil filter/strainer (O&I as required) 5140/011 R-1/13, M-3R, Q-5, S-3R, 3-10R 5140/013 R-13, M-3R, Q-5, S-3R, A-10R 5140/013 R-13, M-3R, Q-10, S-14,		
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Seawater regulating valve Condenser (O&I as required) Zinc anodes (O&I as required) Headers, tube sheet, divider plate (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Inspect/test sea water pump (as applicable) Operating parameters Bearing lubrication Mechanical seal leakage Pump discharge check valve seat tightness Coupling guard Inspect resilient mounts Inspect grounding straps Inspect grounding straps Inspect vent exhaust ducting terminal (flow, location, indicators and alarms) Inspect replacement refrigerant charge Inspect dehydrator (O&I as required) S140/011 R-6 S140/013 R-13, M-3R, Q-5, S-3R, A-10R S000/015 (A or R checks as applicable to installation) NSTM 516 EOSS NAVSEA/OEM Tech Manual OPNAVINSTR 500.19 NAVSEA/OEM Tech Manual OPNAVINSTR 5100.19 S140/011 A-4R S140/013 A-4R NAVSEA S9073-A2-HBK-011 Inspect grounding straps NSTM 300 Inspect flexible hoses S000/009 A-1/2 S000/014 A-1/2 Inspect vent exhaust ducting terminal (flow, location, indicators and alarms) Inspect cylinder stowage racks SCO 516 Inspect lube oil filter/strainer (O&I as required) Inspect dehydrator (O&I as required) Inspect dehydrator (O&I as required) S140/011 R-6 S140/011 R-3	•	
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Headers, tube sheet, divider plate (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Strainers (Hellan, Y, Duplex) (O&I as required) Inspect/test sea water pump (as applicable) Operating parameters Bearing lubrication Mechanical seal leakage Pump discharge check valve seat tightness Coupling guard Inspect resilient mounts Inspect grounding straps Inspect grounding straps Inspect flexible hoses Strainers (Hellan, Y, Duplex) (O&I as required) NSTM 503, GSO 503 EOSS NAVSEA/OEM Tech Manual OPNAVINSTR 5100.19 Pump discharge check valve seat tightness Coupling guard Inspect resilient mounts Stady/011 A-4R 5140/013 A-4R NAVSEA S9073-A2-HBK-011 Inspect grounding straps NSTM 300 Inspect flexible hoses Stood/009 A-1/2 5000/014 A-1/2 Inspect vent exhaust ducting terminal (flow, location, indicators and alarms) Inspect cylinder stowage racks NSTM 516 GSO 516, 671 Inspect replacement refrigerant charge Inspect lube oil filter/strainer (O&I as required) Inspect dehydrator (O&I as required) Inspect dehydrator (O&I as required) Stady/011 R-6 5140/011 R-3	Condenser (O&I as required)	A-10R
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Inspect resilient mounts		
Inspect grounding straps Inspect flexible hoses Inspect flexible hoses Inspect vent exhaust ducting terminal (flow, location, indicators and alarms) Inspect cylinder stowage racks Inspect replacement refrigerant charge Inspect lube oil filter/strainer (O&I as required) Inspect dehydrator (O&I as required) NAVSEA S9073-A2-HBK-011 NSTM 300 NSTM 516 Sec 4 NSTM 516 Sec 4 INSPECT PROBLEM STATES SEC SEC SEC SEC SEC SEC SEC SEC SEC S		5140/011 A-4R
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GSO 516, 671		
GSO 516, 671	Inspect cylinder stowage racks	NSTM 516
Inspect lube oil filter/strainer (O&I as required) 5140/011 R-6 5140/013 R-6 Inspect dehydrator (O&I as required) 5140/011 R-3	•	GSO 516, 671
Inspect lube oil filter/strainer (O&I as required) 5140/011 R-6 5140/013 R-6 Inspect dehydrator (O&I as required) 5140/011 R-3	Inspect replacement refrigerant charge	GSO 516
Inspect dehydrator (O&I as required) 5140/011 R-3	Inspect lube oil filter/strainer (O&I as required)	5140/011 R-6
		5140/013 R-6
	Inspect dehydrator (O&I as required)	5140/011 R-3
51 10/015 IC 5	- · · · · · · · · · · · · · · · · · · ·	5140/013 R-3

Inspect/test refrigerant Purge and Pump Out (PPO)	A/C& R Advisory #32
unit/Refrigerant Recovery Unit (RRO)	5140/011 36M-1, R-5
Moisture indicator	5140/013 A-8, R-5
Oil level	EOSS
Belt drive & belt guard (tension & condition)	NAVSEA/OEM Tech Manual
Compressor cycling (high pressure) switch	
Material condition (O& I as required)	
Dehydrator cartridge (O&I as required)	
Verify halocarbon monitor installation is compatible	NSTM 516
with refrigerant type. Test halocarbon monitor	OPNAVINST 5100.19
	GSO 516
Inspect for non-condensable gases (as required by	NSTM 516
when compressor discharge pressure cannot be	
maintained with WRV)	

5161	REFRIGERATION PLANTS	
Components/Sub-Components		Proposed Procedure
Inspect Tech Manual / EOSS supp	port	NSTM 516
		NAVSEA/
		OEM Tech Manual
Inspect PMS support		5161/001 (R-12)
		5161/005 (R-134a)
		5161/800 (R-12 & R-134a)
Inspect operating/safety instructi	ions are posted	GSO 516, 602
		OPNAVINST 5100.19
		NAVSEA/OEM Tech Manual
Inspect refrigerant logs		5161/001 M-2R
		5161/005 M-2R
Inspect compressor oil level, oil sample		5161/001 R-12D
		5161/005 R-12D
		EOP
		NAVSEA/OEM Tech Manual
Inspect moisture indicators		5161/001 W-1R
		5161/005 W-1R
Inspect capacity control external pneumatic vent		NSTM 516
connection for proper venting (applies only to Carrier		NAVSEA/OEM Tech Manual
compressors equipped with hydra	ulic cap control)	
Inspect prerotational vane operati	on and controls	NSTM 516
		NAVSEA/OEM Tech Manual

Inspect gauge calibration	CRL
Test safety/control pressure switch device settings	5161/800 R-4
and operation	5161/001 18M-2, 18M-4, U-3/4
High pressure safety/control switch	5161/005 18M-2, 18M-4, U-3/4
Low pressure safety/control switch	NSTM 516
Water pressure failure safety switch	NAVSEA/OEM Tech Manual
Oil failure/low oil pressure/differential oil pressure	
switch	
Compressor low pressure control switch	
Chill water pressure/differential flow switch	
Low refrigerant temp switch	
Chill water operating/low temp switch	
Thermostatic Expansion Valve (TXV)	
Inspect/test for system leaks (refrigerant/oil/water)	5161/800 R-5
	5161/001 S-1R
	5161/005 S-1R
	NSTM 516 Sec. 3
Inspect for compressor shaft seal leaks	NSTM 516 Sec. 3
Inspect coupling guard	OPNAVINST 5100.19
	NAVSEA/OEM Tech Manual
Inspect drive belts and belt guards	5161/800 R-5
	5161/001 18M-1
	5161/005 18M-1
Operate/test unit, verify operating parameters, and	5161/800 R-6
verify capacity control system operation	5161/001 18M-2
	5161/005 18M-2
	EOP
	NAVSEA/OEM Tech Manual
Test compressor suction and discharge valves	5161/800 R-4
	5161/001 U-1
	5161/005 U-1
Test/verify evaporator pressure regulator (EPR) and	5161/800 R-6
water regulating valve (WRV) setting and operation	
Inspect for non-condensable gases (as required by	5161/001 Q-5R
when compressor discharge pressure cannot be	5161/005 Q-5R
maintained with WRV)	
Test/verify refrigeration room door safety device,	5161/001 S-4R
inspect door seals	5161/005 S-4R
Inspect gravity type cooling coils for excessive frost build-up	NSTM 516 Sec 4
Inspect drip trough heating coils/cables and indicator lights	NSTM 516 Sec 4

Inspect refrigerator room recirculating fans and	GSO 516
indicator light, verify damper operation	NSTM 516 Sec 4
Inspect sea water system	5161/800 R-3
Condenser	5161/001 S-3R, Q-4R, R-13D
Zinc anodes (O&I as required)	5161/005 S-3R, Q-4R, R-13D
Headers, tube sheet, divider plate (O&I as	5000/015 (A or R checks as
required)	applicable to installation)
Operate emergency cooling water reducing station	NSTM 516
Strainers (Hellan, Y, Duplex) (O&I as required)	EOSS
Reducing valve and station pilot valve sensing	NAVSEA/OEM Tech Manual
line strainer	
Inspect resilient mounts	NAVSEA S9073-A2-HBK-010
Inspect grounding straps	NSTM 300
Inspect flexible hoses	5161/001 A-7/8/10/11
	5161/005 A-7/8/10/11
	5000/009 A-1/2
	5000/014 A-1/2
Inspect vent exhaust ducting terminal (flow, location,	NSTM 516 Sec 4
indicators and alarms)	
Inspect cylinder stowage racks	NSTM 516
	GSO 516, 671
Inspect replacement refrigerant charge	GSO 516
Inspect liquid line strainers and filters (O&I as	5161/001 R-8
required)	5161/005 R-2, R-8
Inspect dehydrator (O&I as required)	5161/001 A-2R
- · · · · · · · · · · · · · · · · · · ·	5161/005 A-2R
Inspect refrigerant recovery unit and vacuum pump	NAVSEA/OEM Tech Manual
Verify halocarbon monitor installation is compatible	NSTM 516
with refrigerant type	OPNAVINST 5100.19
Test halocarbon monitor	GSO 516

8543	PA	ACKAGE CONVEYOR
Component/Sub-Compone	nt	Proposed Procedure
Inspect Tech Manual and EOSS Suppor	rt	
Inspect PMS Support		
Inspect posted operating/safety instruc	ctions (two	
man rule/ do not ride) at each station		
Inspect posted lubrication chart at top	station	
Test for audible warning when starting		
Inspect that all station doors are locked		
Inspect that all station controllers are lo	ocked	
Test door interlock system		
Inspect load/unloader at each station		
Test door cannot close when loader/un	loader is in	
horizontal or 30 deg inclined position		
Test loader/unloader down interlock sw	vitch at each	
station below upper most level		
Test jam limit switch at each station		
Inspect safety shields are properly insta	alled	
Test up-over travel switch/device opera		
Test clean out door interlock switch if a	pplicable	
Test down overtravel device and switch	1	
Test indexing feature		
Test E-stop and run/stop buttons at all	stations	
Inspect proper florescent lighting at each	ch station	
Inspect trunk shielding and mounting h	ardware	
Inspect trunk guide rails		
Inspect conveyor trunk for preservation	n/cleanliness	
Inspect all carrier trays are installed and	l tight	
Test all station growlers and phone circ	uits are	
functional and headsets are present		
Inspect conveyor has been load tested within the last		
five years to include weight test data		
Inspect speed reducer is filled to proper level with oil		
Inspect drive, driven and carrier chains are properly		
tensioned		
Test bite panel for correct components operation	Test bite panel for correct components and proper operation	
Inspect motor controller for loose leads	Inspect motor controller for loose leads, posted	
placards, grounds and correct fuses		

Inspect drive machinery for missing/loose components

8543		DUMBWAITER
Component/Sub-Compo	onent	Proposed Procedure
Inspect Tech Manual and EOSS Sup	port	
Inspect PMS Support		
Inspect posted operating/safety inst station	ructions at each	
Inspect posted lubrication chart at to	op station	
Inspect trunk bi-parting doors	1	
Inspect machinery access cover bolt	s & nuts	
Inspect machinery oil level		
Inspect hoist machinery mounting ha	ardware	
Inspect hoist drum		
Inspect hoist wire rope and end fitting	ngs	
Test slack rope device and limit swit	•	
Test the hoist brake		
Test the up over travel limit switch		
Test the up deck level limit switch		
Test trunk bi-parting door limit switch	ch	
Inspect car broken rope device		
Inspect car bi-parting door assembly		
Inspect car for missing components		
Test lower level trunk bi-parting doo.	rs and limit	
switch		
Test down over travel limit switch		
Test down level limit switch		
Inspect trunk buffer springs		
Test E-call and sound powered phor	ne system when	
installed		
Inspect clean out cover mounting hardware		
Inspect motor controller for loose leads, posted		
placards, grounds and correct fuses		
Inspect dumbwaiter trunk for preservation and		
cleanliness		
Inspect guide rails		
Test each control station E-stop but	ton	

5331	POTABLE WATER PUMPS	
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual / EOSS Supp	ort	EOSS
		NAVSEA/OEM Tech Manual
Inspect PMS Support		5331/800
		5331/002
Inspect Gauge Calibration		CRL
Inspect Transducer Calibration		CRL
Inspect Coupling Guard		OPNAVINST 5100.19
		NAVSEA/OEM Tech Manual
Test local & remote start/stop fund	ctions of potable	EOSS
water pump and priming pump		5331/800 R-2
Inspect potable water pump and pr		EOSS
operation/design discharge pressu	re, unusual noise,	5331/800 R-2
bearing temps, etc.		NSTM 503
		NAVSEA/OEM Tech Manual
Inspect reduced pressure, vacuum breaker and		5331/800 R-4/5/6
double check valve backflow preventer		5331/002 60M-1
Inspect packing/mechanical seal leakage		NSTM 503
Inspect for dissimilar metals (faste	ners & piping)	NSTM 075
Inspect foundation and resilient m	ounts	5331/002 24M-1R
		NAVSEA S9073-A2-HBK-010
		NSTM 300, 502
Inspect all flex hoses are properly	tested/labeled	5000/009 A-1/2
		5000/014 A-1/2
		NAVSHIPYD PUGET SOUND
		261925Z APR99
Inspect grounding straps		NSTM 300
Test potable water pump pressure	switch	N/A

5331	WATER HEATERS	
Component/Sub	-Component	Proposed Procedure
Inspect Tech Manual and EO	OSS Support	NAVSEA/OEM TECH
		MANUAL
Inspect PMS Support		5331/002
Inspect gauge calibration		CRL
Inspect relief valve test data		5331/002 60M-1
Inspect relief valve drain pipi	ng	NAVSEA/OEM TECH
		MANUAL
Inspect cold water inlet pipe	for check valve	NAVSEA/OEM TECH
		MANUAL
Test safety thermostatic swit	ch	5331/002 Q-2
Test over-temp safety device	;	5331/002 S-2
Inspect lagging condition		NSTM 505
Inspect for steam / water leak	S	NSTM 505
Inspect Temp Reg Valve for l	ocking device	NAVSEA/OEM TECH
		MANUAL
Inspect heater foundation		NAVSEA/OEM TECH
		MANUAL
Test water temp at basin/spig	got	5331/002 Q-2

6641]	FAN ROOMS
Component/Sub-Cor	nponent	Proposed Procedure
Inspect deck condition		GSO 509, 512, 528, 670
- No standing water		GSO 509, 512, 528, 670
- Deck rusted / exfoliated		GSO 509, 512, 528, 670
- Deck drain not installed		GSO 509, 512, 528, 670
- Deck drain missing, not secured or inoperative	within deck socket	GSO 509, 512, 528, 670
Inspect deck/bulkheads have no	painted over rust	GSO 509, 512, 528, 670
Inspect lighting is operative and o	covers installed	GSO 509, 512, 528, 670
Inspect adequate lighting present	in space	GSO 509, 512, 528, 670
Inspect vent duct condition		GSO 509, 512, 528, 670
- Access covers present		GSO 509, 512, 528, 670
- Access cover fasteners not ruste	ed/missing	GSO 509, 512, 528, 670
- Duct interior is clean		GSO 509, 512, 528, 670
Inspect correct vent/piping system	n labeling	GSO 509, 512, 528, 670
Inspect fan motor installed correct	tly (flow)	GSO 509, 512, 528, 670
Inspect filters are clean and can b	•	GSO 509, 512, 528, 670
Inspect filter DP gauge is operative		GSO 509, 512, 528, 670
Inspect vent heating element is operative and not deteriorated		GSO 509, 512, 528, 670
Inspect cooling coils are clean		GSO 509, 512, 528, 670
Inspect thermostatic controls are connected and operational	calibrated,	GSO 509, 512, 528, 670
Inspect the cooling coil drain is p drain and is not clogged	iped to the deck	GSO 509, 512, 528, 670
Inspect the proper color coding of piping		GSO 509, 512, 528, 670
Inspect that all hand wheels are present		GSO 509, 512, 528, 670
Inspect for damaged / missing lagging		GSO 509, 512, 528, 670
Test the C/W or steam solenoids are operational		GSO 509, 512, 528, 670
Inspect for chilled water / steam leaks		GSO 509, 512, 528, 670
Inspect for bull's eye and CCOL in space		GSO 509, 512, 528, 670
Inspect for any unauthorized stowed material		GSO 509, 512, 528, 670
Inspect for any unauthorized flam	mables	GSO 509, 512, 528, 670
Inspect the filter cleaning shop		GSO 509, 512, 528, 670

5351	STEAM RISER	and COPPER SERVICE STEAM PIPING
Component/Sub-Compo	nent	Proposed Procedure
Inspect Gauge calibration		CRL
Inspect PMS Support		5351/001
Inspect warning placard posted – wa	rning bleed	
pressure before disconnecting		SIB
Inspect piping/valve condition and o	peration	NSTM 505
Inspect protective cover		NSTM 505
Inspect relief valve for test data		5351/001 60M-1
Inspect overall area preservation		6300/001S-1
Inspect ship has reviewed NAVSEA Wash DC R		NAVSEA Wash DC
130557Z FEB 01 concerning copper piping		R130557ZFEB01
Inspect the ship has established an inspection		NAVSEA Wash DC
program IAW NAVSEA message		R130557ZFEB01
Inspect - Conduct a walkthrough of a	ll copper service	
steam piping to check for leaks IAW	NAVSEA	NAVSEA Wash DC
message		R130557ZFEB01

AUXILIARIES (AX) UNDERWAY PHASE

[DD 963 CLASS MASTER CHECKLIST REV 3]

5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION	
Component/Sub-Con	nponent	Proposed Procedure
Test Operate Anchor Windlas	s with Load	5811/004 U-1
Test Mechanical Handbrake		5811/004 U-1
Inspect Servo/Replenishment and Main Relief Pressures during wildcat operation		NAVSEA/OEM TECH MANUAL
Inspect Anchor drops from the	e hawsepipe	5811/004 U-1
Test Magnetic brake		
		5811/004 U-1
Inspect motor amperage reading	ngs	
		NAVSEA/OEM TECH MANUAL

5600 / 5611	STEERING DEMONSTRATION	
Component/Sub-C	omponent	Proposed Procedure
Inspect proper fluid levels		5611/801 R-3
		NAVSEA/OEM TECH
		MANUAL
Inspect correct Servo/Replenish	nment pressures	5611/801 R-3
Test - Demonstrate timed rudde	er swing checks/	5600/020 R-7
blocking valve test Ahead (as j	per provided	NSTM 562
procedure)		INSURV NOTE
Test - Demonstrate timed rudd	er swing checks/	5600/020 R-7
blocking valve test Astern (as p	er provided	NSTM 562
_procedure)		INSURV NOTE
Inspect for dynamic rudder split	from helm indicator	NSTM 562

5311	WATER PRODUCTION DEMONSTRATION – FLASH TYPE EVAPS	
Component/Sub-Co		Proposed Procedure
Note: Pre-U/W - AX to verify di operational, calibration & safety	relief valves are	Note: Pre-U/W - EL will inspect salinity panel & dump valves.
within periodicity. Detailed mate normally conducted during u/w	*	
Inspect PMS and Tech Manual s	support	5311/014 5311/805
Inspect gauge calibration		CRL 5311/805 R-3
Test flow meter		NAVSEA/OEM TECHMAN
Inspect evaporator shell (sight g	•	5311/805 R-3
and scale buildup) & feed heater		
Test interlock device between potable water and feed water valves		NAVSEA/OEM TECHMAN
Inspect feed pump (labeled, packing gland,		5311/805 R-3
foundation, seal / gland cavity)		
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect distillate pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect heater drain pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect flexible hose condition and test tag		5000/009 A-1/A-2 5000/014 A-1/A-2
Inspect feedwater strainer (foun	dation and basket)	5311/014 R-8
Inspect pipe labeling and lagging		NSTM 505/635
Test - Demonstrate water production capability during the 4 Hour Water Production Demonstration		NAVSEA/OEM TECHMAN

5315	WATER PRODUCTION DEMONSTRATION – REVERSE OSMOSIS	
Component/Sub-Component	ent	Proposed Procedure
Note: Pre-U/W - AX to verify distillers are operational, calibration & safety relief valves are within periodicity. Detailed material inspections are normally conducted during u/w water production.		Note: Pre-U/W - EL will inspect salinity panel & dump valves.
Inspect Tech Manual Support Inspect PMS Support		NAVSEA/OEM TECHMAN 5315/007 5315/008
Inspect relief valves are within periodic	city	NAVSEA/OEM TECHMAN 5315/008 36M-1
Inspect HP pump oil level		5315/007 R-1D 5315/008 R-2D
Inspect flexible hose condition and test tag Inspect Accumulator Pressure		NSTM 505 NAVSEA/OEM TECHMAN 5315/008 R-3
Test the operation of the product and brine flowmeters		NAVSEA/OEM TECHMAN 5315/008 U-2
Test - Demonstrate water production capability during the 4 Hour Water Production Demonstration		NAVSEA/OEM TECHMAN
- Inspect RO to ensure the unit has no produce above maximum recommended (discharge pressure setting, production injection temperature diagram curve ar	d capacity n and sea water	NAVSEA/OEM TECHMAN 5315/008 U-1
- Inspect the operating panel for alarm conditions.	/ unusual	NAVSEA/OEM TECHMAN
- Inspect 3 and 20 micron filter differen	-	5315/007 R-2 5315/008 R-1
 Inspect all fittings and connections for Inspect demineralizer operation 	or leaks	NSTM 505 5315/007 R-3 5315/008 U-1
Inspect freshwater flush		

RO units are installed on DD963

ELECTRICAL (EL) PRE-UNDERWAY PHASE DD 963

3113 / 3202	SHIPS SERVICE GAS TURBINE GENERATORS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test Dead Bus Start Logic		A-9R
Test reverse po	wer relays	R-19
Test Fault curre	ent detect	18M-7R
Test parallel op	eration	IAW EOP
Test manual loa	ad shedding	18M-4R
	ELECTRICAL PLANT CONTI	ROL CONSOLE (EPCC)
C	COMPONENT/SYSTEM	PROPOSED PROCEDURE
Perform Process	sor Self-Test	IAW EOP
3143	400 HERTZ DISTRIBUTION SYSTEM (CONVERTERS)	
C	COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Frequency Changer 60 Hz input circuit breakers shunt trips.		A-6
Test split and parallel operation IAW EOP		IAW EOP
4221 TELL-TALE PANEL/NAVIGATION SIGNAL LIGHT PANEL		ON SIGNAL LIGHT PANEL
C	COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test navigational lighting panel		R-3
Measure insulation resistance of Navigational Lighting Panel		S-1
Measure insula	tion resistance of Signal light Panel	S-1

4331	ANNOUNCING SYSTEMS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test general, chemical, and collision alarms from all stations		Q-1R
Test 1MC from al	ll stations	Q-1R
Test 5 MC operat	ion	Q-5R
Test 6MC operati	on	Q-1R
Measure speaker	group insulation resistance	A-1
Test 21MC opera	tion	Conduct Operational Test
4751	DEGAUSSING SYSTEM	
СО	MPONENT/SYSTEM	PROPOSED PROCEDURE
Conduct linearity	test	Q-1
Conduct ground test.		M-2
Inspect degaussing	ng folder NAVSEA TECH MANUA	
3202	AUTOMATIC BUS TRANSFER EQUIPMENT	
CO	MPONENT/SYSTEM	PROPOSED PROCEDURE
Test all Engineeri	ng ABT's.	Q-1R / Q-2R / R-3
Test all remaining	ABT's. (Day 2)	Q-1R / Q-2R
4371	EVAPORATORS	
СО	MPONENT/SYSTEM	PROPOSED PROCEDURE
Test dump valve operation		S-2
Test alarm setting	gs	S-2
4373	4373 WIND INDICATING SYSTEM	

COMPONEN	T/SYSTEM	PROPOSED PROCEDURE
Test System F	or Proper Operation	R-1M
5081	THERMAL IMAGI	NG SURVEY
COMPONEN	T/SYSTEM	PROPOSED PROCEDURE
Commence Thermal Imaging Throughout The Ship NOTE: Any equipment surveyed that has a temperature rise of 40 degrees centigrade or above (3 or 4 star) must be repaired or tagged out prior to getting underway. The items will not be available until repairs are completed and re-shot for verification		R-1/R-2
2521	UNINTERRUPTED POWER SUPPLIES (UPS)	
COMPONEN	T/SYSTEM	PROPOSED PROCEDURE
Test EPCC UPS for proper operation		R-1
Test CISE UPS for proper operation		R-2
Test PAMCE UPS for proper operation		R-2
Test PLCEE UPS for proper operation		R-2
Test S/CE 2 or 3 UPS for proper operation		R-2

ELECTRICAL (EL) UNDERWAY PHASE

NOTE: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

(INSPECT) FUSE BOXES

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.2.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 – 4.8.2.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.2
Are fuses of the correct amperage and voltage installed?	GSO 303F NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES NSTM 300 – 2.1.4
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?	GS0 300D

(INSPECT) BATTLE LANTERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000
Were lanterns inoperative?	NSTM 330 – 3.6.2
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8

Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3
(INSPECT / TEST) SHORE POW	ER SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is shore power being properly rigged?	NSTM 320 – 2.2.7
Did shore power shunt trip interlocks trip its	IAW PMS
associated breakers when tested?	IAW EOSS
	GSO 320D
Was shore power system cabling between the	NSTM 320 – 2.2.7.2
receptacles and the ship's switchboard insulation	IAW EOSS
resistance within EOSS or PMS limits?	IAW PMS
	NSTM 300
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9
Were warning signs posted?	GSO 070H
Was there pigtail stowage installed?	GSO 320D
Does the shore power system meet the current standards: - Have a Viking Connector System. - Have AQB-LF 400 Amp Circuit Breaker with shunt trip. - Have phase sequencing and phase orientation devices. - Have power available lights at switchboard and shore power connection box. Have installed ammeter and selector switch to	GSO 320D
monitor total shore power current.	
(INSPECT) CATHODIC PROTECT	TION SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
	GSO 633C
Was the installed Cathodic Protection System	
Was the installed Cathodic Protection System operative and adjusted IAW PMS?	IAW PMS

and the hull?

(INSPECT) CATHODIC PROTECT	TON SYSTEM	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Has the system been turned off for greater that 15 days?	GSO 633G	
Were shaft grounding brushes correctly installed?	NSTM 633 – 3.3.2.6 ICCP TECH MANUAL	
Shaft grounding brushes exhibit full contact with the slip ring?	NSTM 633 – 3.3.2.6 ICCP TECH MANUAL	
Was brush rigging correctly installed?	NSTM 633 – 3.3.2.6	
(INSPECT / TEST) ALARM SYSTEMS		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Test alarm switchboards and panels.	IAW PMS	
Were any alarm and warning systems inoperative or missing parts?	GSO 433J	
(INSPECT) ORDER/INDICATING/MET	ERING SYSTEMS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E	
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H	
Were there missing or inoperative salinity cells?	GSO 531B IAW PMS	
MOTOR CONTROLLE	RS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were interiors dirty, rusty, deteriorated, or contained gear adrift?	NSTM 300-5.2.4 NSTM 302-3.3.2	
Were wiring diagrams, schematics or overload heater tables missing?	NSTM 302-3.3.1 GSO 302F	
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F	

Were Start, Stop, "Emergency Run" or Reset buttons	EQUIPMENT TECH
seized, missing or inoperative?	MANUAL AND
	DRAWINGS
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2
Were overload relay heaters properly sized and	NSTM 302-3.3.2
adjusted to provide adequate protection for the motor?	GSO 302G
Were switches protected against inadvertent activation?	GSO 070H
Were controllers with multiple power sources properly labeled?	GSO 305C
Were motor foundations properly preserved?	GSO 631J
Was resilient mo unted electrical equipment grounded	NSTM 300-4.3.3
to the ships hull through ground straps?	NSTM 302-2.4.1.1.1
	DOD-STD-2003
	MIL-STD-1310
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244-1.7.7
Were coupling, belt, or chain guards effective?	NSTM 302-2.4.1.1
	GSO 070H
Were controllers and remote operating stations properly labeled?	GSO 305C
Is clearance provided to permit complete accessibility	GSO 300D
for operation, maintenance, repair, renewal of fuses, and testing?	
WORKBENCHES	

COMPONENT/SYSTEM	PROPOSED PROCEDURE
 Was the electrical workbench properly installed, to include: Front panel, Side Panel, Back panel and Kneehole Insulation. Disconnect Switch properly installed and labeled. 48-inch ground strap for every 4 feet of workbench. 5KVA isolation transformer installed. Safety Placards. 	NSTM 300 APPENDIX H GSO 320E GSO 665 GSO 650
(INSPECT) ELECTRICAL S	SAFETY
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G
Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired.	GSO 640G
Have electronic and electrical shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1-3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS
Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3/2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6

Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	NAVSEA 0964-000-2000
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000
Were plastic-cased bunk light reflectors and toggle switches properly grounded?	NSTM 300-2.2.1.4
(INSPECT) CABLING	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly	NSTM 300-4.6.7
identified/terminated?	GSO 304E
	NSTM 300-4.6.9
	DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1
	GSO 304E
Was cabling properly supported, routed or were nylon wire ties being utilized?	GSO 304E
Were cables pulling out of equipment?	GSO 331E
Were cables improperly spliced?	GSO 304E
	NSTM 300-4.6.8
	DOD-STD-2003-1
Were cables protected against being handholds or being stepped on?	GSO 304E
Was cabling run through beams without the use of	NSTM 300 TABLE 300-4-4
chaffing rings?	GSO 304E
Was cabling running through metal partitions	GSO 304E
equipped with grommets?	NSTM 320-1.6.11
Was cabling on weather decks and engineering	NSTM 300 TABLE 300-4-4
spaces deteriorated?	GSO 304C
Were cable stuffing tubes properly assembled?	NSTM 300-4.6.10.1
	NSTM 300 TABLE 300-4-4

Γ

	NSTM 320-1.6.11
	GSO 304E
Were multiple cables running through one stuffing	GSO 304E
tube?	NSTM 300 TAB. 300-4-4
Were multi-cable penetrators installed in Flammable	GSO 304E
Liquid Storerooms?	MIL-STD-1310
(INSPECT) BUS TRANSFER E(QUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were ABT's installed for the following:	NSTM 320-1.3.2
- Emergency Lighting.	GSO 320D
- IC Switchboard and panels.	
- Steering power panel.	
- Pumps associated with the main and auxiliary	
machinery plant having Low Voltage Release	
(LVR) control.	
- Fire pumps.	
- Fire extinguishing auxiliaries and controls.	
(INSPECT) BUS TRANSFER E(QUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Did ASCO ABT transfer switches have an electrical	NAVSEA FSC SER 03E2/03E2-
charge on the metal screw on the manual operator?	234
Was the sliding interlock on manual bus transfer	NSTM 300-4.8.4.2
switches effective at preventing both breakers from	
being closed at the same time?	
Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights	NSTM 320-2.2.6.4
operative?	
Were Automatic Bus Transfer Devices operating	NSTM 300-4.8.4.2
•	NSTM 300-4.8.4.2 NSTM 320-1.3.2.1
properly	
(INSPECT) SHIP TELEPHONI	GSO 300J 320D
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the system unreliable due to unresolved software	
or hardware deficiencies?	GSO 432

Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTORS	S
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were motor foundations properly preserved?	NSTM 300
Was resilient mounted electrical equipment grounded to the ships hull through ground straps?	NSTM 300
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current rating?	GSO 305E
Are multi-phase circuits missing breaker connecting handles?	GSO 324C
Were power panels located inside galley spaces?	GSO 320E
Is clearance provided to permit complete accessibility?	GSO 300D
CASUALTY POWER CAI	BLES
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cable ends properly terminated?	GSO 304E NSTM 320-3.4.1 DOD-STD-2003
Were cables deteriorated from age, heat, and humidity?	NSTM 079-47.4.2.2.10
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2 GSO 320G
Were racks properly identified as to number/length of cables assigned to the rack?	GSO 305F

Is there a label attached at the end of the cable to	GSO 305F
indicate the length and stowage rack number?	DOD-STD-2003
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6
Was an improper number/length of cable installed on a cable rack?	NSTM 079-47.5.6.1 GSO 320G
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4 NSTM 079-47.4.2.3.6 GSO 320G
ELECTRICAL DISTRIBUTION E	QUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDUR
COMPONENT/SYSTEM Was electrical distribution equipment securely mounted?	PROPOSED PROCEDUR NSTM 300-4.3.3 GSO 300D
Was electrical distribution equipment securely mounted? Electrical distribution equipment have loose or	NSTM 300-4.3.3
Was electrical distribution equipment securely mounted? Electrical distribution equipment have loose or missing covers? Were control knobs or fasteners missing from	NSTM 300-4.3.3 GSO 300D
Was electrical distribution equipment securely mounted? Electrical distribution equipment have loose or missing covers? Were control knobs or fasteners missing from electrical equipment? Was electrical equipment protected from water	NSTM 300-4.3.3 GSO 300D NSTM 300-4.3.3
Was electrical distribution equipment securely mounted? Electrical distribution equipment have loose or missing covers? Were control knobs or fasteners missing from electrical equipment? Was electrical equipment protected from water intrusion? Is electrical properly mounted or was it suspended	NSTM 300-4.3.3 GSO 300D NSTM 300-4.3.3 NSTM 300-4.3.3
mounted? Electrical distribution equipment have loose or missing covers?	MSTM 300-4.3.3 NSTM 300-4.3.3 NSTM 300-4.4.1 NSTM 300-4.4.5

not be removed from an energized receptacle?	
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience outlets labeled to prevent equipment being used with the wrong frequency?	GSO 320
SOUND POWERED TELEPHONE	ESYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were Sound Powered Telephone Circuit Amplifiers missing or inoperative?	NSTM 430-3.1
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I
Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts?	NSTM 430
Were Sound Powered Jackboxes improperly labeled, corroded, damaged, or missing parts?	NSTM 430-3.2
(INSPECT) LIGHTING	j
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were darken ship switches operative and adjusted properly?	NSTM 330-3
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2
Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4
Did diesel module room have adequate lighting?	GSO 331B/332E
Were plastic-cased bunk light reflectors and toggle switches properly grounded?	NSTM 300-2

(INSPECT) BATTERY LOCK	KERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was a Battery Log maintained?	NSTM 313-2
Is there an electrical interlock between exhaust	5100.19C C0904
ventilation and battery charger?	NSTM 313
Are Alkaline and Lead Acid Batteries being serviced in the same facility?	5100.19 C0904
Is each locker provided with: - Rubber Gloves and Aprons.	5100.19 GSO 313F
Goggles.Two battery fillers.Two battery test sets.	
- One soda water container.	
Does the locker contain an eye wash station and a deluge shower?	NSTM 313-2
Are battery storage racks greater than 12 inches between tiers?	GSO 313F
(INSPECT) BATTERY LOCK	KERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were battery hold-down clamps provided?	GSO 313F
Are Acids stored in appropriate protective containers?	GSO 313F
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F
(INSPECT) MISCELLANEOUS EQ	UIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1
Is hardwired electrical equipment permanently mounted?	NSTM 330-1
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7
Is electrical equipment mounted on non-conducted	3000 / A-5
is situation equipment mounted on non conducted	3000/113

surfaces properly grounded?	
Were Surge Protectors of the approved type?	3000 / A-4R
Are portable electric device power cords properly tinned?	3000 / Q-1R
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM –H.5, I-2
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.
Are non-watertight connection boxes being used in engineering spaces?	GSO 300D
Was rubber matting oil soaked, cracked, punctured, perforated or had imbedded metal or conductive particles?	GSO 634B
Was accommodation ladder lighting of the proper typed? (Not to use dress ship lights attached to gangway handrails)?	NSTM 330-1
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2
Were dress ship light receptacles labeled "Dress Ship Light Streamers. Not to be used for any other purpose"?	NSTM 330-1-
Were panel switches controlling circuits that are de- energized during darkened ship operation marked DARKENED SHIP?	
	NSTM 330-1
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?	
	IAW PMS
Was UPS electronic cabinet bottom sealed to prevent water of oil entry from lower level engine room?	GS0 300D/324D NSTM 300-4

ELECTRICAL (EL) POST-UNDERWAY

DD 963

COMPONENT/SYSTEM	PROPOSED PROCEDURE

MAIN PROPULSION (MP) PRE-UNDERWAY PHASE DD 963

2340	MAIN ENGINES	
Co	omponent/Sub-Component	Proposed Procedure
Test Blow in D	oors	2513/001 (R-7)
Test GTM Fire	e Extinguishing System	2521/005 (Q-5)
Inspect Gas Tu	urbine	EOP GTMI
- Gas Generato	r Assembly	
- Power Turbin	e Assembly	
- Transfer Gear	box and components	
- Bleed Air Ma	nifold	
Inspect Base E	nclosure Interior/Exterior and bonding	2340/002 (R-20)
/grounding str	aps	2340/002 (R-26)
Verify all techn	ical directives have been installed	GTB/MGTESR
Inspect LOSC	A	EOP SOLA
Instruments, ga	auges and thermometers	CRL
Inspect Intake	Dirty Side	2340/002 (R-12)
Inspect Intake	Plenum	
Inspect Bell M	outh Screen	
Inspect Demist	er Pads/Gaskets/Frames	2513/001 (R-12)
Inspect Intake	(Silencer level)	

Inspect Fire Fighting System	5553/001 (S-2R)
- Halon/C02 Bottles	
- Conduit/actuation cables	
- Hoses/fittings/check valves	
Conduct LP Air Start and GTM Idle Checks	EOP CAMS
Conduct HP Air Start and GTM Idle Checks	EOP CAMS
Conduct Methanol Test	NSTM 262-5.4.2.1

2411	REDUCTION GEARS	
Component/Sub-Component		Proposed Procedure
Test Shaft Tu	rning Gear	EOP MRTG
Test GTM PT	Brake Assemblies	EOP CMSI
Inspect Lube C	Oil Condition/sump level	2000/001 (R-1)
Inspect MRG	Interior	2411/024 (S-1, S-2);
- Gear Teeth c	ontact/condition	TM 0942-LP-016-0010
- Lube Oil Spra	ay Pattern	
- Casing Interi		
- Attached LO	Pump Angle Drive Gear	
- Attached CRP Angle Drive Gear		
- SSS clutch M	Ianual Lock-out Mechanism opeartion	
- Power Turbir	ne Break Piston Travel	
- Input Shaft Seals		
Inspect Oil Flo	w in SFI's	NSTM 244-33.3.6
Instruments, g	auges and thermometers	CRL
Inspect Casing	Exterior	NSTM 241
Inspect Vent Fog Precipitator		EOP RGVS
Inspect Dehumidifier		EOP MRDH
Inspect Security Devices		NSTM 241-4.2.3
Inspect Flange	Shielding	NSTM 505
Inspect Piping Systems		NSTM 505

2441	LINE SHAFT BEARINGS	
C	omponent/Sub-Component	Proposed Procedure
Inspect Lube C	Oil Condition/sump level	2000/001 (R-1)
Inspect Sump I	Drain Valve	2000/001 (R-1)
Inspect Seals		NSTM 244-2.6.30
Instruments, g	auges and thermometers	CRL
Inspect Lubric	ator	NSTM 244
Inspect Dip St	ick	NSTM 262
Inspect Lock V	Vires	NSTM 244
Inspect Bearin	g Depth Mic Surface	NSTM 244
Inspect Found	ation	NSTM 631

2400	STERN TUBE SEALS	
Component/Sub-Component		Proposed Procedure
Test Cooling Water Low Flow Alarm		2400/018 (S-1, S-3, S-4)
Test Inflatable Seal		2400/018 (S-5)
Instruments, gauge	es and thermometers	CRL
Inspect Cooling W	ater Piping	NSTM 505
Inspect Cooling W	Vater Strainer/Filter	EOP STCW
Inspect LP Air Sup	oply	NSTM 505
Inspect LP Piping	/Hoses/Fittings	NSTM 505
Inspect CO2/N2 B	ottles/Piping/Fitting	2400/018 (30M-1)
Inspect Emergency	Flax Packing Kit	NSTM 244
Inspect Backing R	ing	NSTM 244

2451	CRP SYSTEMS	
Component/Sub-Component		Proposed Procedure
Verify Calibration between Consoles and OD box		EOP CPPT
Test Slew Rate		EOP CPPT
Test Command P	itch Mismatch Alarm	EOP EOT
Test Emergency I	Pitch Pump	2451/001 (R-8) Perform steps
		1. through 1.b. (1)

	Inspect HOPM - Flex Hoses - Piping	EOP CPPC 2451/001 (24M-1R) NSTM 505
	- Instruments, gauges and thermometers - Flange Shields	CRL
I	Inspect Electric CRP Pump	EOP CPPC
	- Motor	NSTM 503-5.3.8.1.2.
	- Controller	
	- Pump	
	- Mechanical Seal	
	- Instruments, gauges and thermometers	
L	- Flange Shields	
	Inspect Oil Condition and head tank level	2451/001 (R-1W)
	Inspect Attached CRP Pump	NSTM 503-5.3.8.1.2.
	- Inspect Mechanical Seal	

2620	LUBE OIL SYSTEMS	
Component/Sub-Component Proposed		Proposed Procedure
Test MRG Lube	Oil Sequencing	2620/001 (A-2)
Test/Inspect Lub	e Oil Strainer	EOP LODS
Test Lube Oil Pu	rifier and Heater	EOP LOPO
Inspect Electric M	RG Lube Oil Pump	EOP CLOP
- Motor		2451/001 (24M-1R)
- Controller		NSTM 503-5.3.8.1.2.
- Pump		NSTM 505
- Mechanical seal		CRL
- Piping /flex hose	S	
- Relief valves		
- Instruments, gau	ges and thermometers	
- Flange Shields		

Inspect Attached MRG Lube Oil Pump	2451/001 (24M-1R)
- Mechanical seal	NSTM 503-5.3.8.1.2.
- Piping/flex hoses	NSTM 505
- Relief valve	CRL
- Instruments, gauges and thermometers	
- Flange Shields	
Inspect Temperature Regulating Valve	NSTM 505
Inspect Unloading Valve	NSTM 505
Inspect Lube Oil Purifier	2451/001 (24M-1R)
- Motor	NSTM 503-5.3.8.1.2.
- Controller	NSTM 505
- Piping/flex hoses	CRL
- Relief valve	
- Instruments, gauges and thermometers	
- Flange Shields	
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2610	FUEL OIL SYSTEMS	
Component/Sub-Component		Proposed Procedure
Test Fuel Oil Booster Pump Logic Sequencing and		2610/006 (A-31)
Fault Circuitry		
Test Service Tank Suct/Recirc Valves		EOP CFOP
Test Quick Closin	ng Valves	EOP CFOP

Test GTM Fuel Oil Solenoid Trip Valves	EOP CFOP
Test fuel oil coaleser filter block and differential	2610/006 (R-22)
pressure alarm	
Inspect Booster Pumps	EOP CFOP
- Motor	2451/001 (24M-1R)
- Controller	NSTM 503-5.3.8.1.2.
- Flexible coupling	NSTM 505
- Mechanical seal	
- Piping	
- Relief valves	
Inspect fuel oil service heater	2610/803 (R-25)
Inspect instruments, gauges and thermometers	CRL

inspect instruments, gauges and thermometers		S CRL
2521	CONTROLS	
Component/Sub-Component		Proposed Procedure
Test PACC Alarr	ns and Indicators	EOP CTAI
Test PLCC Alarm	ns and Indicators	EOP CTAI
Test EOT Wrong	Direction Alarm	EOP EOT
Test PACC on UPS		2521/005 (R-2)
Inspect PACC ins	truments	CRL
Inspect PLCC inst	ruments	CRL
Inspect Torsionm	eter	CRL
Inspect 800 Group	Print	EOP CPSA
Inspect and Test I	Bell/Data Logger	EOP CPSA

	HULL STRUCTURE		
	Component/Sub-Compo	nent	Proposed Procedure
	Bilges		NSTM 631
	Deck Plates		EOP MLOC
	Equipment Foundations		NSTM 631
_	Pipe Brackets/Hangers		NSTM 505
	Paint and Preservation		NSTM 631

5516	BLEED AIR SYSTEMS	
Component/Sub-C	/Sub-Component Proposed Procedure	
Test Motor Air Reg valve		EOP CBAM
Test Masker Air Transfer Valve		EOP CBAM

Test Mixing Bypass valve	EOP CBAM
Test High Temp Bleed valve	EOP CBAM
Test Masker Cooler inlet valve	EOP CBAM
Test PRAIRIE Air Cooler inlet valve	EOP CBAM
Test GTM 16 th Stage Bleed Air valves	EOP CBAM
Test GTG 14 th Stage Bleed Air valve	EOP CBAM
Test GTG Start Air Cooler inlet valve	EOP CBAM
Test HP Start Reg valve	EOP CBAM
Test 3 GTG Bleed Air Isolation valve	EOP CBAM
Inspect GTM Bleed Air Reg valves	EOP CBAM
Inspect GTG Bleed Air Reg valve	EOP CBAM
Inspect Prairie Air Roto Seal	EOP CBAM
Inspect Flex hoses	2451/001 (24M-1R)
Inspect GTG Start Air Cooler	EOP CBAM
Inspect instruments, gauges and thermometers	CRL
Inspect Piping/Fittings	NSTM 505
Inspect Masker Air Cooler	EOP CBAM
Inspect Masker Air Cooler relief vlv	EOP CBAM
Inspect Prairie Air Cooler	EOP CBAM
Inspect Prairie Air Cooler relief vlv	EOP CBAM
Inspect drain orifices	EOP CBAM

FUEL OIL XF	FUEL OIL XFER SYSTEMS	
Component/Sub-Component	Proposed Procedure	
Test/operate Fuel Oil Purifier	EOP LOPO	
Inspect Transfer Pumps	EOP LOPO	
- Motor	2451/001 (24M-1R)	
- Controller	NSTM 503-5.3.8.1.2.	
- Mechanical seal	NSTM 505	
- Piping/flex hoses		
- Relief valves		
- Flange shields		
Inspect fuel oil transfer heater	EOP LOPO	
Inspect fuel oil transfer and ballast consol	EOP CAF	
Inspect instruments, gauges and thermometers	CRL	

Component/Sub-Component	Proposed Procedure
Test operation of RPM and temperature circuits Test	3113/001 (R-20, R-21)
Fire detection and protection circuitry	
Test LOCOP Alarms and Indicators	
Test blow-in door automatic operation	3431/001 (Q-5)
Inspect Turbine Enclosure	3113/001 (24M-2R)
- Compressor	EOP GTGI
- Accessory Gear box	
- Diffuser Case	
- Combuster	
- Bleed Air Manifold	
- Electrical Wiring and Cables	
- Thermocouple harness and junction box	
- 5 th and 10 th stage bleed air valves	
- Elastomers	
- Engine side mounts	
- Enclosure Exterior	
- Enclosure Interior	
- Flex hoses	
Inspect Reduction Gear Enclosure	EOP GTGI
- Electrical Wiring and Cables.	
- Reduction gear vent piping	
- PTO shaft housing speed pick-up	
- Reduction gear lube oil sump level	
- Starter	
- Flex hoses	
Inspect Fire Fighting System	5553/001 (S-2R)
- C02 Bottles	
- Conduit/actuation cables	
- Hoses/fittings/check valves	
Inspect/shift duplex seawater cooling strainers	EOP STCW
Verify Engine lube oil sump level (23699)	2000/001 (R-1)
Inspect instruments, gauges and thermometers	CRL
Start GTG Verify all Start/Operating limits	EOP GTSS
- Inspect thermocouple spread and average monitor	

5172 WASTE HEAT BOILERS	
Component/Sub-Component	Proposed Procedure
COLD PLANT:	
Inspect gauge glass lighting	NSTM 221
Inspect instruments, gauges and thermometers	CRL
Inspect for proper lay up	NSTM 221
Inspect safety valves and hand easing gear	NSTM 221
Inspect feed water control valve	NSTM 505
Inspect control condenser SW regulating valve	NSTM 505
Inspect steam stop valve	NSTM 505
Inspect dump valve	NSTM 505
Inspect foundation	NSTM 221
HOT PLANT:	
Test low control air pressure alarm	5172/005 (S-9)
Test high/low/low-low water level alarms	
Test high/low steam pressure alarms	
Test soot blowers	EOP WHBP
Test boiler water sample	NSTM 220
Inspect boiler casing for leaks	NSTM 221
Inspect bottom blow valves and piping	NSTM 221
5172 FEED AND CONDI	ENSATE SYSTEM
Component/Sub-Component	Proposed Procedure
Test feed and drain tank high/low level alarms	5172/005 (R-8)
Test salinity alarms	5172/005 (S-9)
Inspect operation of CIT system	EOP WHBP
Inspect feed pump mechanical seal leakage	NSTM 503-5.3.8
Inspect recirc pump mechanical seal leakage	NSTM 503-5.3.8
Inspect condensate cooler	EOP WHBP
Inspect control condenser	EOP WHBP
5172 DF	<u>T</u>
Component/Sub-Component	Proposed Procedure
Test high/low water level alarms	5172/005 (S-9)
Test DFT for D.O.	NSTM 220
Inspect relief valve	NSTM 505
Inspect gauge glass isolation valves	NSTM 505
Inspect gauge glass lighting	NSTM 221
ADMINISTRATIO	
Component/Sub-Component	Proposed Procedure
BW/FW Records (last 3 months)	NSTM 220
Bottom blow UT records	NSTM 220
Last BIRMIS report	NSTM 220

INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS)	
Component/Sub-Component	Proposed Procedure
Verify operational status of each workstation	
Verify number of required portable data terminals	
(PDT) and that they are operational	
Verify number of required portable diagnostic aids	
(PDA) and that they are operational	
Are any critical system errors shown in the system	
log?	
Ensure data for at least two routes from actual rounds	
Ensure data from Data Acquisition devices is being	
received as required	
Verify Demand Data is received and processed	
accurately	
Verify database data is received and processed	
accurately	
Ensure router connections are operating properly	
Ensure remote demand data and database data are	
available to be viewed.	
Verify all required system links are available	
Verify all ICAS printers are operational	
Verify picture book is available for vibration checks	
Verify vibration data is being taken per PMS	
Verify vibration disc are installed on all equipment	
Conduct vibration surveys on selected equipment	
during the full power demonstration	
Inspect all cabinet air filters	
Inspect all ICAS computer equipment	
Inspect computer internal shocks and fans	

MAIN PROPULSION (MP) UNDERWAY PHASE DD 963

22,00		
FULL POWER AND QUICK REVERSAL DEMONSTRATIONS		
EOP CSSF		
2340/002 (R-9)		
EOSS/POG/9094.1B		
POG/Full Power Memo/EOSS		
POG/Full Power Memo/EOSS		
LUBE OIL PURIFIER DEMONSTRATION		
EOP LOPO		
Demonstrate purifier operation EOP LOPO FUEL OIL TRANSFER DEMONSTRATION		
EOP FOPO		
EOP FOPO		
Demonstrate purifier (s)emergency stop capability		
Proposed Procedure		
CRL		
EOP BSAA		
5516/007 (R-4Q)		
5516/804 (R-9)		
5516/804 (R-10)		
5516/804 (R-11)		